MODIS sensor Working Group (MsWG) Meeting Summary March 26, 2008

Attendance: Vince Salomonson, Gerhard Meister, Gene Eplee, Gary Toller, James Kuyper, Zhengming Wan, Bill Barnes, Eric Vermote, Jack Xiong, Aisheng Wu, Hongda Chen, Sergey Marchenko, Brian Wenny

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Scheduled Agenda

Item 1: Recent L1B LUT delivery

- Terra forward update – 5.0.40.3 (03/13/08) – m1, RVS, a0/a2
- Aqua forward update – 5.0.35.2 (03/20/08) – m1, RVS, QA

Item 2: Instrument status

- Terra and Aqua MODIS are in nominal operations.
- Aqua SSR Anomaly Update (anomaly on Dec 2, 2007) – FOT has decided to make the temporary fix (ground station software) into the permanent fix (SSR hardware - requires power on/off cycle to reset). The software fix has been in place since mid-December and has been working well.
- Terra Drag Makeup Maneuver (#52) successfully completed on 3/24/2008. Low fidelity pointing times are 2008/084 15:05:00-17:47:54.

Item 3: MCST recent activities

- Aqua QA Update: As of granule 2008038.1750 Aqua Band 29 Detector 2 is now classified as Noisy in the QA LUT. The detector began to show increases in b1 fluctuations and NEdT as of that granule after spacecraft passage through the South Atlantic Anomaly (previously reported to MsWG on 2/13/2008). The detector behavior appeared to stabilize after one week. On 2008062.1545 the b1 fluctuations and increased NEdT returned and this behavior continued consistently to the present date. For NEdT, 40%-60% of scans in any given granule were out of specification during this period. The time tag in the QA LUT was entered as the granule of the initial SAA event (2008038.1750).
- Aqua now has 3 TEB detectors flagged as noisy, and 1 flagged as inoperable.
- Collection 6 a0/a2 update strategy (Terra): Chris Moeller raised several concerns at the MCST workshop regarding the unexpected large differences for Bands 24, 25, 27 & 28 between Terra MODIS and the MAS onboard the ER-2 (typical scene temperatures). MCST re-evaluated our proposed Collection 6 a0/a2 strategy for these bands and produced a set of test data using a0/a2 derived from cool-down activity data. The comparison using this data significantly reduced the differences observed for these bands. These results are for the typical scene temperature range and a check on the impact at temperature extremes is a remaining action for MCST to complete.
- A preliminary detector dependent RSB RVS LUT as part of Collection 6 has been derived. Results to be presented at a future MsWG.

Item 4: Around the Table

- Jack/Vince: MODIS & VIIRS combined science team meeting will be May 14-16 at the BWI Hilton Airport Hotel. Details to be announced soon. The MCST session will focus on Collection 6 issues.

Next Meeting: ~Apr. 9, 2008

Compiled by B. Wenny